## **CLAIMS**

1. An imidazole derivative of formula (I):

$$R_3$$
 $R_4$ 
 $R_1$ 
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_1$ 
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_4$ 

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and acid addition salts and stereoisomeric forms thereof, wherein:

- R<sub>1</sub> and R<sub>2</sub> are each independently hydrogen, a (C<sub>1</sub>-C<sub>6</sub>)alkyl or a (C<sub>3</sub>-C<sub>8</sub>)cycloalkyl; or R<sub>1</sub> and R<sub>2</sub> together form a saturated or unsaturated 5-, 6- or 7- membered carbocyclic ring;
- Q is (CH<sub>2</sub>)<sub>m</sub>-X-(CH<sub>2</sub>)<sub>n</sub>-A;
  - A is a direct link, O, S, SO, SO<sub>2</sub>, NR<sub>5</sub>;
  - X is a direct link, CF<sub>2</sub>, O, S, SO, SO<sub>2</sub>, C(O), NR<sub>5</sub> or CR<sub>6</sub>R<sub>7</sub>;
  - Z is a group selected from:

$$R_8$$
 $(R_9)_p$ 
 $(R_9)_p$ 
 $R_8$ 
 $(R_9)_p$ 
 $(R_9)_p$ 

$$(R_9)_p$$

- m and n are each independently 0, 1, 2, 3 or 4;
- p is 1, 2, 3 or 4;
- q is 0,1 or 2;
- the dotted line means that R<sub>8</sub> and/or R<sub>9</sub> can be on any position of the
   benzothiophene ring;
  - R<sub>3</sub> and R<sub>8</sub> are each independently hydrogen or a hydroxy, cyano, halogen, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, trifluoromethyl, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, acyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, carboxamido, OPO(OR<sub>10</sub>)<sub>2</sub>, NR<sub>10</sub>R<sub>11</sub>, SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>OR<sub>10</sub>, SO<sub>2</sub>OR<sub>10</sub>, SSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CF<sub>2</sub>SO<sub>2</sub>OR<sub>10</sub>, CF<sub>2</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CF<sub>2</sub>-tetrazolyl or NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CONR<sub>10</sub>R<sub>11</sub>, OCHO, OCONR<sub>10</sub>R<sub>11</sub>, OCSNR<sub>10</sub>R<sub>11</sub>, SCONR<sub>10</sub>R<sub>11</sub>, tetrazolyl, NR<sub>12</sub>CONR<sub>10</sub>R<sub>11</sub>, NR<sub>10</sub>-CHO group;
  - when Q-Z is

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$$(CH_2)_n$$
  $R_8$   $(R_9)_p$ 

n is 0, 1 or 2 and p is 1, one of  $R_3$  and  $R_8$  is a hydroxy, nitro, OPO(OR<sub>10</sub>)<sub>2</sub>, 15  $\mathsf{NR_{10}R_{11}}, \quad \mathsf{OSO_2NR_{10}R_{11}}, \quad \mathsf{OSO_2OR_{10}}, \quad \mathsf{SO_2OR_{10}}, \quad \mathsf{SSO_2NR_{10}R_{11}}, \quad \mathsf{CF_2SO_2OR_{10}}.$  $CF_2SO_2NR_{10}R_{11}$ ,  $CF_2$ -tetrazolyl,  $NR_{12}SO_2NR_{10}R_{11}$   $OSO_2NR_{10}SO_2NR_{11}R_{12}$ ,  $CO_2R_{10}$ , CONR<sub>10</sub>R<sub>11</sub>, OCHO, OCONR<sub>10</sub>R<sub>11</sub>, OCSNR<sub>10</sub>R<sub>11</sub>, SCONR<sub>10</sub>R<sub>11</sub>, SCSNR<sub>10</sub>R<sub>11</sub>, tetrazolyl,  $NR_{12}CONR_{10}R_{11}$ ,  $NR_{10}$ -CHO group and the other is hydrogen or a hydroxy, cyano, halogen, nitro,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy, trifluoromethyl, 20 (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, acyl,  $(C_1-C_6)$ alkylthio, carboxamido,  $NR_{10}R_{11}$ ,  $SO_2NR_{10}R_{11}$ ,  $OSO_2NR_{10}R_{11}$ ,  $OSO_2OR_{10}$ ,  $SO_2OR_{10}$ .  $SSO_2NR_{10}R_{11}$ ,  $CF_2SO_2OR_{10}$ ,  $CF_2SO_2NR_{10}R_{11}$ ,  $CF_2$ -tetrazolyl,  $NR_{12}SO_2NR_{10}R_{11}$ , OSO<sub>2</sub>NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CO<sub>2</sub>R<sub>10</sub>, CONR<sub>10</sub>R<sub>11</sub>, OCHO, OCONR<sub>10</sub>R<sub>11</sub>, OCSNR<sub>10</sub>R<sub>11</sub>, SCONR<sub>10</sub>R<sub>11</sub>, SCSNR<sub>10</sub>R<sub>11</sub>, tetrazolyl, NR<sub>12</sub>CONR<sub>10</sub>R<sub>11</sub>, NR<sub>10</sub>-CHO group; 25

•  $R_4$  and  $R_9$  are each independently hydrogen or a hydroxy, cyano, halogen, nitro,  $OPO(OR_{10})_2$  , $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy, trifluoromethyl,  $(C_1-C_6)$ alkylthio,  $(C_1-C_6)$ alkylsulfonyl, acyl,  $(C_1-C_6)$ alkoxycarbonyl, carboxamido,  $NR_{10}R_{11}$ ,  $SO_2NR_{10}R_{11}$ ,  $OSO_2NR_{10}R_{11}$ ,  $OSO_2OR_{10}$ ,  $SO_2OR_{10}$ ,  $SO_2OR_{10}$ ,

SSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CF<sub>2</sub>SO<sub>2</sub>OR<sub>10</sub>, CF<sub>2</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CF<sub>2</sub>-tetrazolyl, NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CO<sub>2</sub>R<sub>10</sub>, CHO, CONR<sub>10</sub>R<sub>11</sub>, OCHO, OCONR<sub>10</sub>R<sub>11</sub>, OCSNR<sub>10</sub>R<sub>11</sub>, SCONR<sub>10</sub>R<sub>11</sub>, SCSNR<sub>10</sub>R<sub>11</sub>, tetrazolyl, NR<sub>12</sub>CONR<sub>10</sub>R<sub>11</sub>, NR<sub>10</sub>-CHO group;

- when p is 2, 3 or 4 the R<sub>9</sub>s can be the same or different;
  - R<sub>6</sub> and R<sub>7</sub> are independently hydrogen, halogen, a (C<sub>1</sub>-C<sub>6</sub>)alkyl or a (C<sub>3</sub>-C<sub>8</sub>)cycloalkyl;
  - R<sub>5</sub>, R<sub>10</sub>, R<sub>11</sub> and R<sub>12</sub> are each independently hydrogen, hydroxy, a (C<sub>1</sub>-C<sub>6</sub>)alkyl, or a (C<sub>3</sub>-C<sub>8</sub>)cycloalkyl; R<sub>10</sub> can also be a salt; R<sub>10</sub> and R<sub>11</sub> can also form, together with the nitrogen atom to which they are bound, a 5- to 7-membered heterocycle containing one or two heteroatoms selected from O, S and N;
  - when Z is

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$$(R_9)_p$$

15 and p is 1,

then  $R_8$  and  $R_9$  can also form together with the phenyl ring a benzoxathiazine dioxide, a dihydrobenzoxathiazine dioxide, a benzoxathiazinene dioxide, a benzoxathiazole dioxide, a benzoxadithiadiazine tetraoxide, a benzodithiazine tetraoxide or a benzodioxadithiine tetraoxide;

20 • when Z is

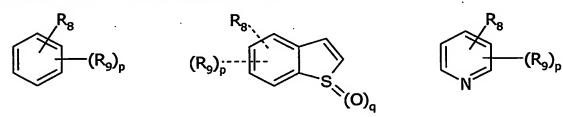
R<sub>3</sub> and R<sub>4</sub> together with the phenyl ring bearing them can also form a benzofurane or a N-methylbenzotriazole, provided that when p is 1 and Q is (CH<sub>2</sub>)<sub>n</sub>, then R<sub>8</sub> and R<sub>9</sub> are independently a hydroxy, nitro, OPO(OR<sub>10</sub>)<sub>2</sub>, NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>OR<sub>10</sub>, SO<sub>2</sub>OR<sub>10</sub>, SSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CF<sub>2</sub>SO<sub>2</sub>OR<sub>10</sub>, CF<sub>2</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CF<sub>2</sub>-tetrazolyl, NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CO<sub>2</sub>R<sub>10</sub>,

CONR<sub>10</sub>R<sub>11</sub>, OCHO, OCONR<sub>10</sub>R<sub>11</sub>, OCSNR<sub>10</sub>R<sub>11</sub>, SCONR<sub>10</sub>R<sub>11</sub>, SCSNR<sub>10</sub>R<sub>11</sub>, tetrazolyl, NR<sub>12</sub>CONR<sub>10</sub>R<sub>11</sub> or NR<sub>10</sub>-CHO group.

- 2. A derivative according to claim 1, and acid addition salts and stereoisomeric forms thereof, wherein:
  - one of  $R_3$  and  $R_8$  is a hydroxy, nitro,  $NR_{10}R_{11}$ ,  $OSO_2NR_{10}R_{11}$  or  $NR_{12}SO_2NR_{10}R_{11}$  group; and
  - the other is hydrogen or a hydroxy, cyano, halogen, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, trifluoromethyl, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, acyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, carboxamido, NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> group;
    - 3. A derivative according to claim 1 or 2, and acid addition salts and stereoisomeric forms thereof, wherein:
- one of R<sub>3</sub> and R<sub>8</sub> is hydroxy, cyano, (C<sub>1</sub>-C<sub>6</sub>)alkoxy or OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>; and
  - the other is hydrogen or a hydroxy, halogen, nitro, cyano,  $(C_1-C_6)$ alkoxy,  $NR_{10}R_{11}$ ,  $SO_2NR_{10}R_{11}$ ,  $OSO_2NR_{10}R_{11}$ ,  $NR_{12}SO_2NR_{10}R_{11}$ ,  $OSO_2NR_{10}SO_2NR_{11}R_{12}$  group.
- 20 4. A derivative according to any one of claim 1 to 3, and acid addition salts and stereoisomeric forms thereof, wherein:
  - one of R<sub>3</sub> and R<sub>8</sub> is cyano; and
  - the other is hydrogen or a hydroxy, halogen, nitro, (C<sub>1</sub>-C<sub>6</sub>) alkoxy, NR<sub>10</sub>R<sub>11</sub>,
     SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> group.
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- 5. A derivative according to any one of claims 1 to 4, and acid addition salts and stereoisomeric forms thereof, wherein:
- R<sub>4</sub> and R<sub>9</sub> are each independently hydrogen, hydroxy, cyano, halogen, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, trifluoromethyl, (C<sub>1</sub>-C<sub>6</sub>)alkylthio,
   (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, acyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, carboxamido, NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CO<sub>2</sub>R<sub>10</sub> or CHO group.

- 6. A derivative according to any one of claim 5, and acid addition salts and stereoisomeric forms thereof, wherein:
- one of R<sub>4</sub> and R<sub>9</sub> is hydrogen or a hydroxy, cyano or OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>; and
- the other is hydrogen or a hydroxy, cyano, halogen, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkyl,
   (C<sub>1</sub>-C<sub>6</sub>)alkoxy, trifluoromethyl, NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CO<sub>2</sub>R<sub>10</sub>, CHO, NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> group.
  - 7. A derivative according to claim 6, and acid addition salts and stereoisomeric forms thereof, wherein:
- R<sub>4</sub> is hydrogen, hydroxy, cyano or OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>;
  - $R_9$  is a hydrogen or a hydroxy, cyano, halogen, nitro,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy, trifluoromethyl,  $NR_{10}R_{11}$ ,  $OSO_2NR_{10}R_{11}$ ,  $CO_2R_{10}$ , CHO group.
- 8. A derivative according to claim 7, and acid addition salts and stereoisomeric forms thereof, wherein:
  - R<sub>4</sub> is hydrogen; and
  - $R_9$  is hydroxy, cyano, halogen, nitro,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy, trifluoromethyl,  $NR_{10}R_{11}$ ,  $OSO_2NR_{10}R_{11}$ ,  $CO_2R_{10}$ , CHO or  $NR_{12}SO_2NR_{10}R_{11}$ .
- 20 9. A derivative according to any one of claims 1 to 8, and acid addition salts and stereoisomeric forms thereof, wherein Z is:



in which:

- R<sub>8</sub> is hydrogen, hydroxy, halogen, nitro, cyano,  $(C_1-C_6)$ alkoxy, NR<sub>10</sub>R<sub>11</sub>, SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> or OSO<sub>2</sub>NR<sub>10</sub>SO<sub>2</sub>NR<sub>11</sub>R<sub>12</sub> group;
  - R<sub>9</sub> hydrogen or a hydroxy, cyano, halogen, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, trifluoromethyl, NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CO<sub>2</sub>R<sub>10</sub>, CHO, NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> group;
  - p and q are as defined in claim 1.

10. A derivative according to any one of claims 1 to 9, and acid addition salts and stereoisomeric forms thereof, wherein Q is selected from a direct link, C(O),  $SO_2$ , CONH, C(O)(CH<sub>2</sub>)<sub>n</sub>, (CH<sub>2</sub>)<sub>n</sub>(O) or (CH<sub>2</sub>)<sub>n</sub> in which n is 0,1 or 2.

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- 11. A derivative according to claim 1, and acid addition salts and stereolsomeric forms thereof, wherein:
- Z is

$$R_8$$
  $(R_9)_p$ 

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- Q is (CH<sub>2</sub>)<sub>n</sub> in which n is 0,1 or 2;
- one of R<sub>3</sub> and R<sub>8</sub> is a hydroxy, nitro, NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> or NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> group and the other is hydrogen or a hydroxy, cyano, halogen, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, trifluoromethyl, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, acyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, carboxamido, NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> or NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> group;
- $R_4$  and  $R_9$  are each independently hydrogen, hydroxy, cyano, halogen, nitro,  $(C_1\text{-}C_6)$ alkyl,  $(C_1\text{-}C_6)$ alkoxy, trifluoromethyl,  $(C_1\text{-}C_6)$ alkylthio,  $(C_1\text{-}C_6)$ alkylsulfonyl, acyl,  $(C_1\text{-}C_6)$ alkoxycarbonyl, carboxamido,  $NR_{10}R_{11}$ ,  $OSO_2NR_{10}R_{11}$  or  $NR_{12}SO_2NR_{10}R_{11}$  group.
- R<sub>10</sub> and R<sub>11</sub> are each independently hydrogen, a (C<sub>1</sub>-C<sub>6</sub>)alkyl or a (C<sub>3</sub>-C<sub>8</sub>)cycloalkyl;
- p is 1, 2, 3 or 4;
- R<sub>8</sub> and R<sub>9</sub> together with the phenyl ring bearing them can also form a benzoxathiazine dioxide or a dihydrobenzoxathiazine dioxide;
  - R<sub>3</sub> and R<sub>4</sub> together with the phenyl ring bearing them can also form a benzofurane or a N-methylbenzotriazole.
- 12. A derivative according to claim 11, and acid addition salts and stereoisomeric forms thereof, wherein:

Z is .

$$R_8$$
  $(R_9)_p$ 

- Q is (CH<sub>2</sub>)<sub>n</sub> in which n 0, 1 or 2;
- R<sub>8</sub> is hydroxy, halogen, nitro, cyano or a (C<sub>1</sub>-C<sub>6</sub>)alkoxy, NR<sub>10</sub>R<sub>11</sub>, SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>,
   OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, or NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> group;
- R<sub>9</sub> is hydrogen, hydroxy, cyano, halogen, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, trifluoromethyl, NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>;
- p is as defined in claim 1.
- 10 13. A derivative according to claim 12, and acid addition salts and stereoisomeric forms thereof, wherein:
  - n is 0 or 1;
  - R<sub>4</sub> and R<sub>9</sub> are each independently hydrogen, halogen, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, acyl,
     NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> or NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>.

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- 14. A derivative according to any one of claims 11 to 13, and acid addition salts and stereoisomeric forms thereof, wherein:
- n is 0 or 1;
- R<sub>1</sub>, R<sub>2</sub> and R<sub>4</sub> are each hydrogen;
- R<sub>9</sub> is hydrogen, halogen, (C₁-C<sub>6</sub>)alkyl or OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>.
  - 15. A derivative according to any one of claims 11 to 14, and acid addition salts and stereoisomeric forms thereof, wherein:
  - n and p are 1;
- R<sub>8</sub> is a hydroxy, halogen, nitro, cyano, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, NR<sub>10</sub>R<sub>11</sub>, SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>,
   OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> or OSO<sub>2</sub>NR<sub>10</sub>SO<sub>2</sub>NR<sub>11</sub>R<sub>12</sub> group;
  - R<sub>9</sub> a hydroxy, cyano, halogen, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, trifluoromethyl, NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CO<sub>2</sub>R<sub>10</sub> or CHO group;
  - R<sub>3</sub> is cyano, hydroxy, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> or NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>;
- R<sub>4</sub> is hydrogen, hydroxy, halogen, cyano or OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>.

A derivative according to any one of claims 12 to 15, and acid addition salts and stereoisomeric forms thereof, wherein one of  $R_3$  and  $R_8$  is hydroxy, cyano or  $OSO_2NR_{10}R_{11}$  and the other is hydroxy, nitro,  $NR_{10}R_{11}$ ,  $OSO_2NR_{10}R_{11}$  or  $NR_{12}SO_2NR_{10}R_{11}$ .

17 A derivative according to claim 16, and acid addition salts and stereoisomeric forms thereof, wherein one of  $R_3$  and  $R_8$  is cyano or  $OSO_2NR_{10}R_{11}$  and the other is hydroxy or  $OSO_2NR_{10}R_{11}$ .

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- 18 A derivative according to claims 1 or 2, and acid addition salts and stereoisomeric forms thereof, wherein:
- Z is

$$(R_g)_p$$
  $(O)_q$ 

## 15 in which:

- Q is (CH<sub>2</sub>)<sub>m</sub>-X-(CH<sub>2</sub>)<sub>n</sub>-A-;
- A is a direct bond or O, S, SO, SO<sub>2</sub>, NR<sub>5</sub>;
- X is a direct bond, CF<sub>2</sub>, O, S, SO, SO<sub>2</sub>, C(O), NR<sub>5</sub> or CR<sub>6</sub>R<sub>7</sub>;
- m and n are each independently 0, 1, 2, 3 or 4;
- R<sub>3</sub>, R<sub>4</sub>, R<sub>8</sub> and R<sub>9</sub> are each independently hydrogen or a hydroxy, cyano, halogen, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, benzyloxy, trifluoromethyl, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, acyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, NR<sub>10</sub>R<sub>11</sub>, OPO(OR<sub>10</sub>)<sub>2</sub>, OCHO, COOR<sub>10</sub>, SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, SO<sub>2</sub>OR<sub>10</sub>, OSO<sub>2</sub>OR<sub>10</sub>, SSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, CONR<sub>10</sub>R<sub>11</sub>, OCONR<sub>10</sub>R<sub>11</sub>, OCSNR<sub>10</sub>R<sub>11</sub>, SCONR<sub>10</sub>R<sub>11</sub>, SCONR<sub>10</sub>R<sub>11</sub>, SCSNR<sub>10</sub>R<sub>11</sub>, NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, tetrazolyl, NR<sub>10</sub>CONR<sub>11</sub>OH, NR<sub>10</sub>SO<sub>2</sub>NR<sub>11</sub>OH, NOH-CHO, NOHSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> or OSO<sub>2</sub>NR<sub>10</sub>OH group;
  - p is 0,1 or 2.
  - $R_5$ ,  $R_6$ ,  $R_7$ ,  $R_{10}$ ,  $R_{11}$  and  $R_{12}$  are each independently hydrogen, a  $(C_1-C_6)$ alkyl or a  $(C_3-C_8)$ cycloalkyl;  $R_{10}$  can also be a salt;  $R_{10}$  and  $R_{11}$  can also form,

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> together with the nitrogen atom to which they are bound, a 5- to 7membered heterocycle containing one or two heteroatoms selected from O, S and N;

- The dotted line means that Q and/or R<sub>8</sub> and/or R<sub>9</sub> can be on any position of the benzothiophene ring.
- A derivative according to claim 18, and acid addition salts and 19 stereoisomeric forms thereof, wherein R<sub>8</sub> is OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub> or NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>.
- A derivative according to claim 18 or 19, wherein R<sub>9</sub> is hydrogen, halogen, 20 10 nitro, COOR<sub>10</sub> or cyano.
  - A derivative according to any one of claims 18 to 20, wherein R4 is 21 cyano,  $(C_1-C_6)$ alkoxy,  $NR_{10}R_{11}$ ,  $OSO_2NR_{10}R_{11}$ halogen, hydrogen,  $NR_{12}SO_2NR_{10}R_{11}$

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- A derivative according to any one of claims 18 to 21, wherein R<sub>10</sub>, R<sub>11</sub> and 22  $R_{12}$  are each independently hydrogen or  $(C_1-C_6)$ alkyl.
- A derivative according to any one of claims 18 to 22, wherein Q is 23  $(CH_2)_m$ -X- $(CH_2)_n$ -A where m is 0, 1 or 2 and X is a direct bond,  $SO_2$  or CO, n is 0 20 and A is a direct bond.
  - A derivative according to any one of claims 18 to 23, wherein R<sub>3</sub> is hydrogen, halogen or cyano.

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- A derivative according to claim 1 or 2, and acid addition salts and 25 stereoisomeric forms thereof, wherein:
- Z is a group:

$$(R_9)_p$$

in which R<sub>8</sub>, R<sub>9</sub> and p are as defined in claim 1.

- 26 A derivative according to claim 25, and acid addition salts and stereoisomeric forms thereof, wherein:
- R<sub>3</sub> is cyano or OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>;
- 5 R<sub>4</sub> is hydrogen, hydroxyl, halogen, cyano, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>;
  - R<sub>8</sub> is hydroxy, cyano, OSO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, NR<sub>10</sub>R<sub>11</sub>, NR<sub>12</sub>SO<sub>2</sub>NR<sub>10</sub>R<sub>11</sub>, OCHO or tetrazolyl;
  - R<sub>9</sub> is hydrogen, halogen, nitro, cyano or CO₂R<sub>10</sub>; and
  - Q is as defined is claim 10.

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- 27. A derivative according to any one of claims 1 to 26, and acid addition salts and stereoisomeric forms thereof, wherein  $R_1$  and  $R_2$  are independently hydrogen or a  $(C_1-C_6)$ alkyl group.
- 15 28 A derivative according to any one of claims 1 to 27, and acid addition salts and stereoisomeric forms thereof, wherein  $R_{10}$  and  $R_{11}$  are hydrogen.
  - 29 A compound according to any one of claims 1 to 28 or a pharmaceutically acceptable salt thereof for use as an active therapeutic substance.

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- A pharmaceutical composition comprising a derivative according to any one of claims 1 to 28, or a pharmaceutically acceptable acid addition salt thereof, and a pharmaceutically acceptable carrier.
- The pharmaceutical composition according to claim 30, comprising from 0.1 to 400 mg of said derivative.
  - 32 Use of a derivative according to anyone of claims 1 to 28 or a pharmaceutically acceptable acid addition salt thereof in the manufacture of a medicament for the treatment or prevention of hormone- or non hormone-dependent tumors, wherein said derivative is optionally combined with a sexual endocrine therapeutic agent.

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- 33 Use of a derivative according to any one of claims 1 to 28 or a pharmaceutically acceptable acid addition salt thereof in the manufacture of a medicament for the control or management of reproductive functions, wherein said derivative is optionally combined with a LH-RH agonist or antagonist, an estroprogestative contraceptive, a progestin, an anti-progestin or a prostaglandin.
- 34 Use of a derivative according to any one of claims 1 to 28 or a pharmaceutically acceptable acid addition salt thereof in the manufacture of a medicament for the treatment or prevention of benign or malignant diseases of the breast, the uterus or the ovary, wherein said derivative is optionally combined with an antiandrogen, an anti-estrogen, a progestin or a LH-RH agonist or antagonist.
- 15 35 Use of a derivative according to any one of claims 1 to 28 or a pharmaceutically acceptable acid addition salt thereof in the manufacture of a medicament for the treatment or prevention of androgen-dependent diseases or benign or malignant diseases of the prostate or the testis, wherein said derivative is optionally combined with an antiandrogen, a progestin, a lyase inhibitor or a 20 LH-RH agonist or antagonist.
  - 36 Use of a derivative according to any one of claims 1 to 28 or a pharmaceutically acceptable acid addition salt thereof in the manufacture of a medicament for the treatment or prevention of cognitive function disorders, especially senile dementia, in particular Alzheimer's disease.
  - 37 Use of a derivative according to any one of claims 1 to 28 or a pharmaceutically acceptable acid addition salt thereof in the manufacture of a medicament for the treatment or prevention of immunodisorders.
  - 38 Use of a derivative according to any one of claims 1 to 28 or a pharmaceutically acceptable acid addition salt thereof in the manufacture of a

medicament for the treatment or prevention of pathologies in which inhibition of aromatase and/or steroid sulfatase and/or carbonic anhydrase is required.

39 A method of treating a disease in which aromatase and/or steroid sulfatase and/or carbonic anhydrase is involved, which comprises administering to a subject in need thereof a therapeutically effective amount of a compound according to any one of claims 1 to 28.